User manual

DIGITAL SATELLITE RECEIVER

PVR (Personal Videorecorder)

Please read through all the instructions first! Do not dispose of these instructions! The guarantee bcomes invalid if the device is damaged through faulty operation!

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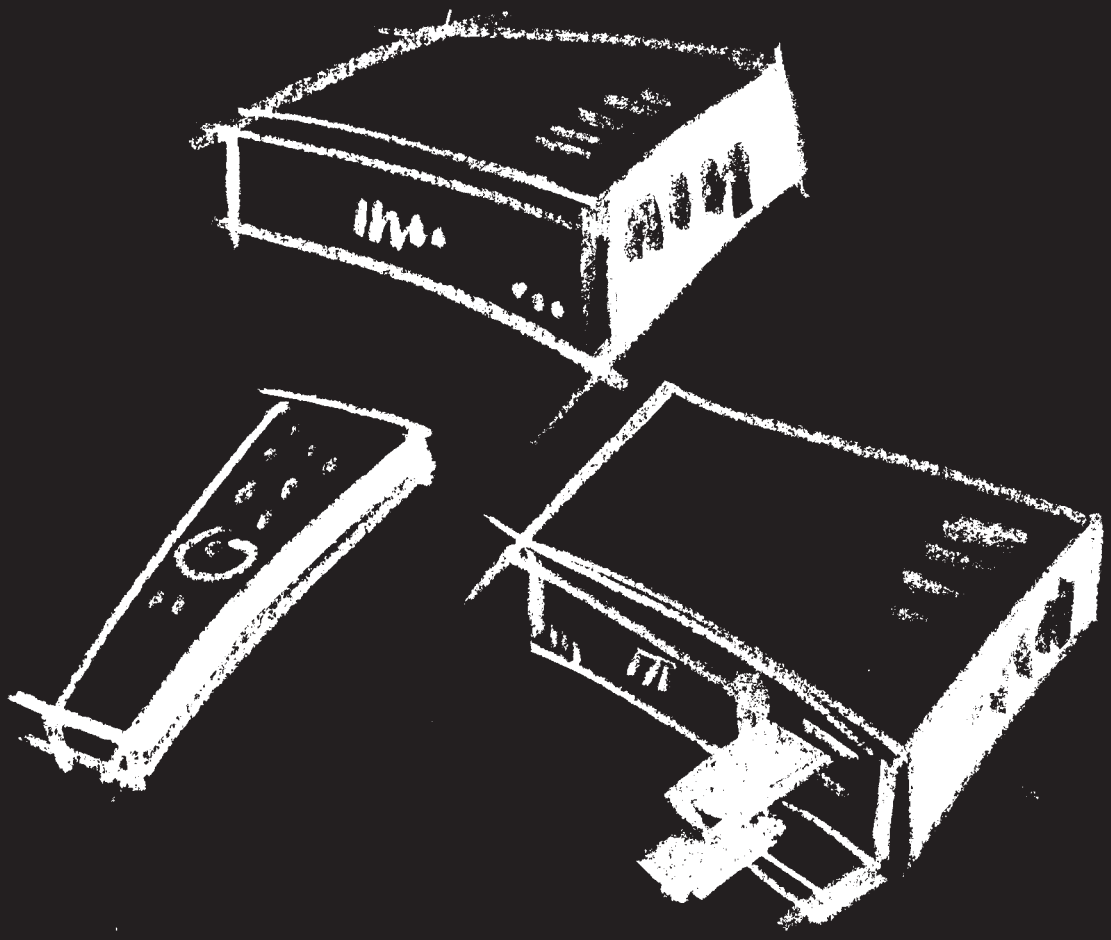

Edition 11/2003 (GB), Version 2.0

1 Introduction

Thankyou for purchasing this digital satellite receiver. All Products have been manufactured to the highest standards, fulfilling the highest standards at our ISO 9002 accredited manufacturing plants.

Before you begin the installation, please check again that your satellite system (antenna, LNB etc.) is compatible for DIGITAL reception: 10.7 - 12.0 GHz LNB. If it is not possible to check this yourself, contact an expert.

Of course you will naturally wish to begin viewing your favourite programmes as quickly as possible - this is why we designed the menu to fully meet your requirements as simply as possible. To ensure you get the most out this product, we advise you to read through this booklet carefully.

NOTE:

To avoid technical differences between your TV set and this receiver it is suggested that you have your TV user manual also at hand.

ATTENTION:

If you wish to receive encoded channels (Pay TV) then insert your Pay TV module(s) into the slot(s) on the front of the receiver as shown in the diagram on page 8. More information to this theme can be found on page 24, chapter 9.7.

If it is necessary to return your receiver, please send it together with all accessories and in its original packaging. Include a copy of your invoice or receipt as well as a detailed description of the problem. Please ensure you affix adequate postage to the package or refer all repairs to an authorised retailer.

We hope you enjoy using this product.

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3 Important Safety Information

This device is solely for receiving satellite programmes and must only be used according to its intended purpose, as described in these instructions. Please ensure that the receiver is kept out of reach of children. The following additional instructions must also be adhered to in order to protect your health and to safeguard your device against damage.

WARNING:

Never remove the housing or parts of it!
Prevent all moisture and foreign bodies from penetrating the device!

CAUTION:

Do not cover up the ventilation openings on the device, risk of fire from overheating!

CAUTION:

Only use original spare parts or those recommended by your specialist dealer, otherwise there is a risk of injuries and damage to property! The guarantee expires if you fail to observe this!

ATTENTION:

Switch off the device during thunderstorms and if it is not to be used for a long time! Remove the antenna cable too during thunderstorms!

ATTENTION:

Only ever use a clean cloth, slightly moistened with clean water to clean the receiver, do not use any chemical additives!

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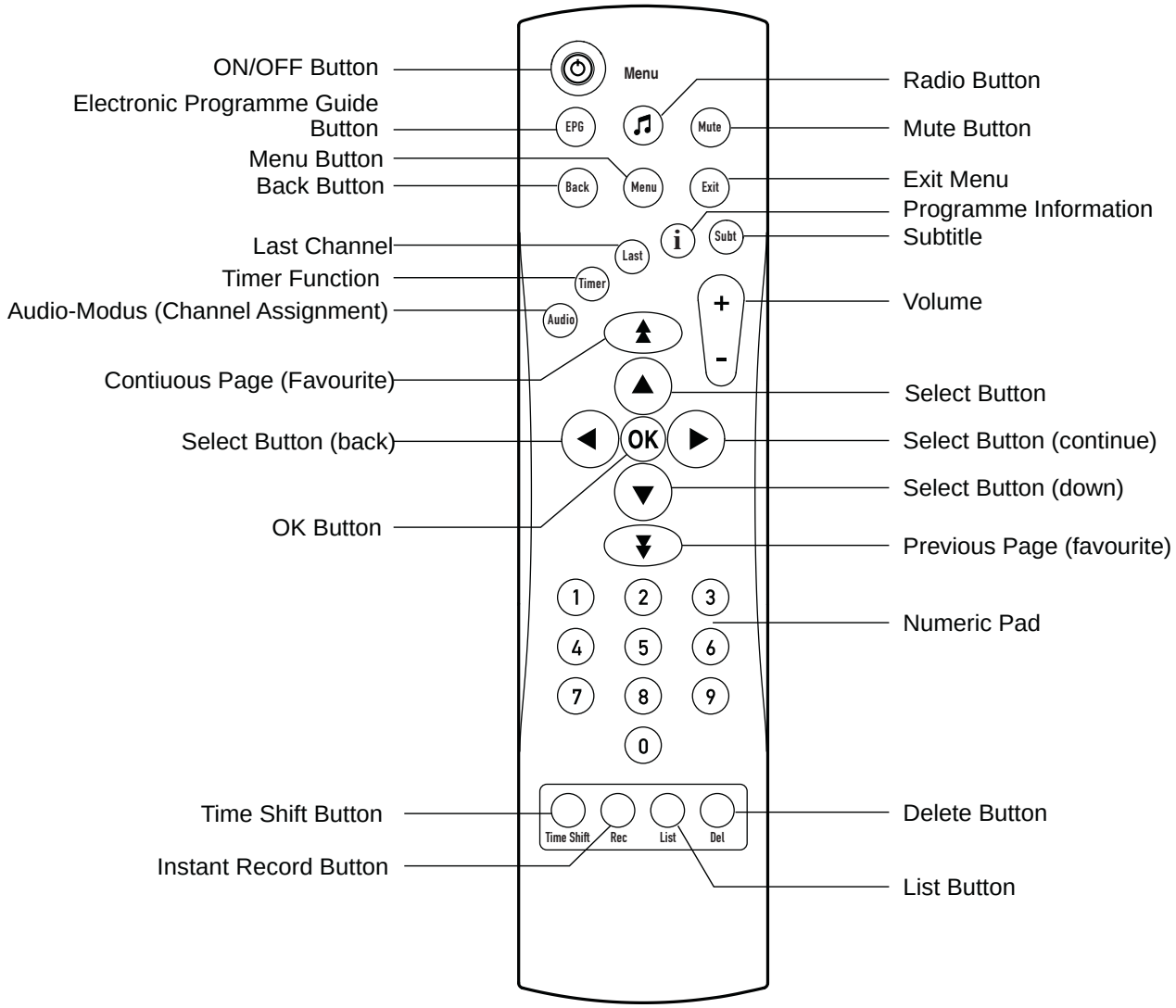
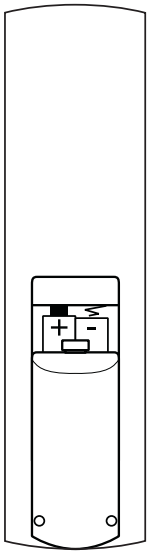
4 The Receiver and its Functions

4.1 Remote Control





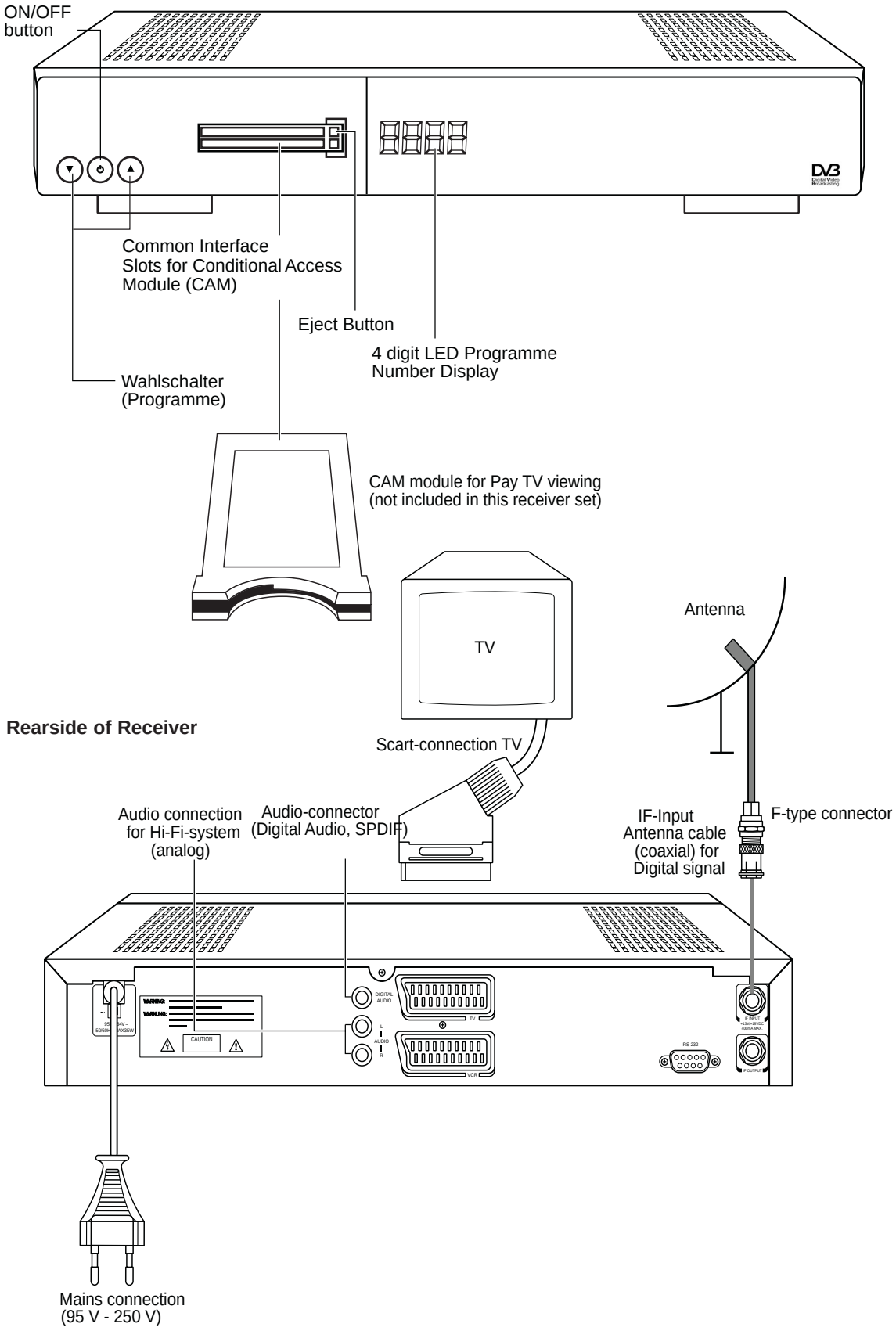
NOTE:

Ensure that you insert the batteries in the remote control with the correct polarity (+/-)!

The Receiver and its Functions

4.2 Receiver - Connection to TV and Dish

Front of Receiver


ON/OFF button
Common Interface Slots for Conditional Access Module (CAM)
Eject Button
4 digit LED Programme Number Display
Wahlschalter (Programme)
CAM module for Pay TV viewing (not included in this receiver set)
TV
Antenna
Rearside of Receiver
Scart-connection TV
Audio connection for Hi-Fi-system (analog)
Audio-connector (Digital Audio, SPDIF)
IF-Input Antenna cable (coaxial) for Digital signal
F-type connector
Mains connection (95 V - 250 V)

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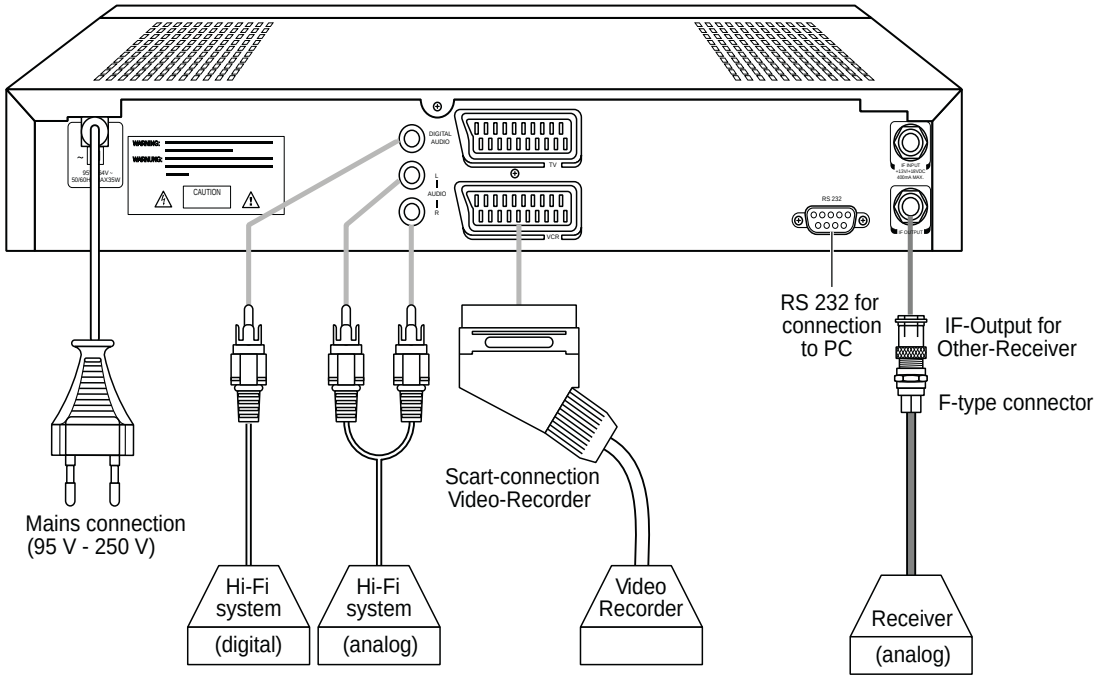
4.3 Receiver- Connection to other devices

Rearside of Receiver



5 Installing the Receiver

ATTENTION:

Never place the device close to heat sources or in a place where there is strong radiation from the sun.

Lay all the cables so that they cannot be damaged, e.g. on sharp edges.

Only connect the device to a mains with 95 V – 264 V~, 50/60 Hz supply.

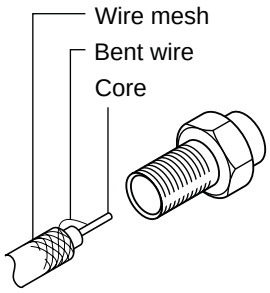
ATTENTION:

Only connect the device to the mains after correctly linking it to the video recorder, television and any other additional receiver (analogue).

- Use a double-shielded coaxial cable for the coaxial connection cable from the LNB to the receiver.

ATTENTION:

When fitting the F-connector ensure that no protruding wires from the metal braiding come into contact with the inner conductor (see Fig.). There is a risk of a short cut and damage to the receiver on contact!



- Tighten the lock nut of the F-connector by hand. Ensure that the lock nut is notover-tightened.

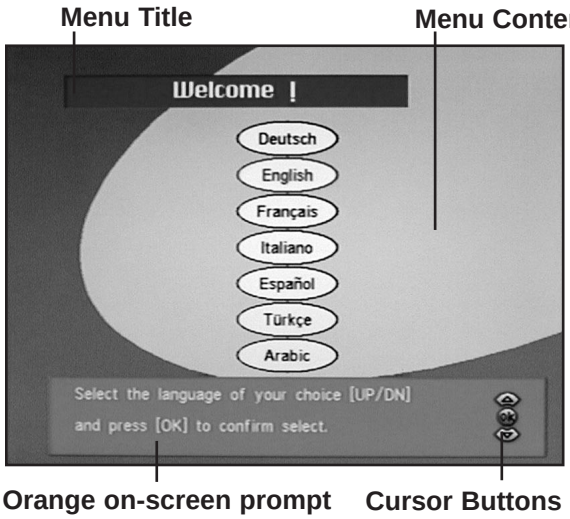
The receiver has already been pre-programmed in the factory; this means that you can receive hundreds of programmes immediately. You can of course alter this programming or replace it completely. In order to use all the benefits of the user menu (e.g. channel & programme information), you must make several adjustments which are described in detail in the following chapters.

6 Setting up the Receiver

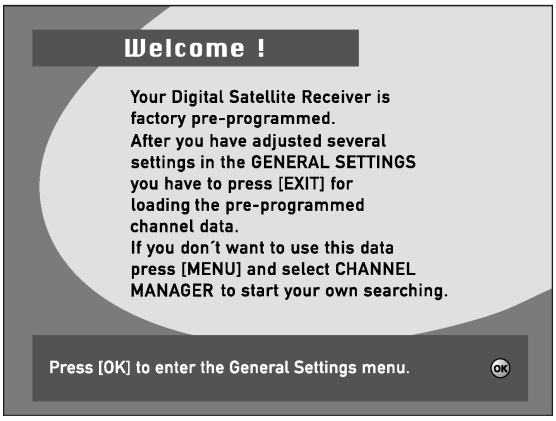
- Switch on your television and set it to receiver reception (AV or SCART input).
- Press the On / Off button on the receiver or on the remote control.

The receiver display indicates with ON that it is ready for use. You will see the following image on the screen:

- Set your language. The orange dialogue block shows you how to do this and which remote control buttons you require.



The following display shows you what to do next.


Welcome !
Your Digital Satellite Receiver is factory pre-programmed.
After you have adjusted several settings in the GENERAL SETTINGS you have to press [EXIT] for loading the pre-programmed channel data.
If you don´t want to use this data press [MENU] and select CHANNEL MANAGER to start your own searching.
Press [OK] to enter the General Settings menu.
OK

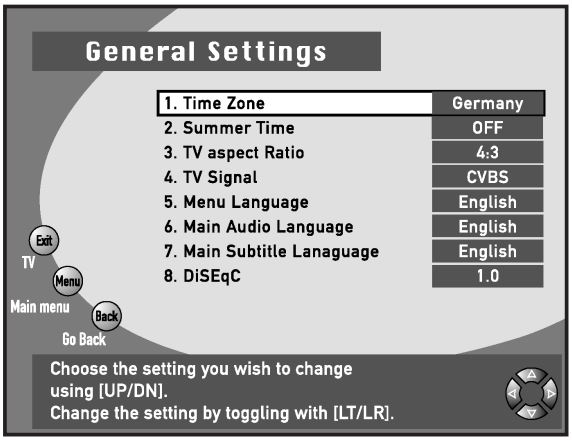
If you have pressed the OK button, you will see the “General Settings“ menu. The screen menu shows you the buttons which you can use - and which function they have.

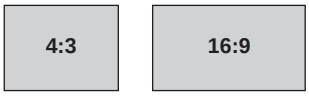
Example:

“BACK“ – return to the previous screen menu.
“Exit“ – return to the TV display.
“Menu“ – go to the main menu.

General Settings

1. Time Zone
   Set your time zone by selecting a country in your time zone.
2. Sommerzeit
   Select “On” under 2 for summer time and “OFF“ for wintertime.
3. Bildschirmformat
   Enter the screen format of your television.





General Settings

4. TV Signal
select the optimal video format for your television.
Refer to the manual of your TV set for this information.

5.+ 6.+ 7. Languages
Specify the required language

8. DiSEqC
Set 8 ”DiSEqC 1.2“ ON, if your parabolic antenna has a control motor, which can receive and implement the receiver’s control signals (more details under Item 9.5: Antenna Positioner).

ATTENTION:

- If DiSEqC is set to 1.2, the function of DiSEqC 1.0 (A, B, C, D) is no longer guaranteed

After completing these initial steps it is possible to view the preprogrammed channels. To do this you must first activate the preprogrammed settings:

- Press the Exit button to load the settings you have programmed. After a short period you will be able to receive TV programmes.

If you wish not to use the preprogrammed settings then it is possible, by pressing the Menu button, to change to the Hauptmenü (see chapter 9) and customize the settings yourself.

7 Using your Receiver

7.1 Channel Selection

- Use the number buttons to enter the number of the required channel or select it from a channel list.

NOTE:

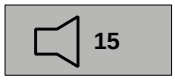
The channel number has four digits.
You can also enter from one to three-digit number
(e.g. 1, 13, 203), and press the OK button to confirm.

- Press the UP or DOWN button, to get to the next highest or next lowest channel.

- Press the LAST button, to return to the last viewed channel/programme.

Each time you change the channel, the screen shows you the channel name and number, the time and the time at which the current and following programmes start. You can diplay this information yourself by pressing the INFO button.

7.2 Volume and Mute



- Use the volume buttons on the remote control to adjust the volume.

If you do not make any changes for several seconds, the display disappears.

- Press the Mute button (see 4.1, page 7), to switch off the sound:

- Press this button again, to cancel the mute setting (switch on sound).

7.3 Radio Operation

In addition to the TV channels, many broadcasters also transmit their radio programmes in digital Hi-Fi quality.

- Press the Radio button (see 4.1, page 7), to switch from TV mode to radio mode.
- Press the Radio button again to switch back from radio mode to TV mode.

7.4 Selecting Audio mode (incl. Dolby Digital)

- Press the AUDIO button. Use the > button to select one of the languages offered by the broadcaster (BL).
- Press the UP / DOWN button and set one of the following options:

Stereo – sound from left and right
Mono (L) – sound only from the left
Mono (R)– sound only from the right
AC3 – Dolby Digital

- Press the AUDIO button again or the EXIT button, to quit this menu.

NOTE:

The real purpose of this function is to transmit various language channels to the TV image. However, several channel operators use this facility to transmit various radio programmes. Limited reception can result from this.

8 Channel Lists and Sort Manager

8.1 Channel Lists and Sort Manager

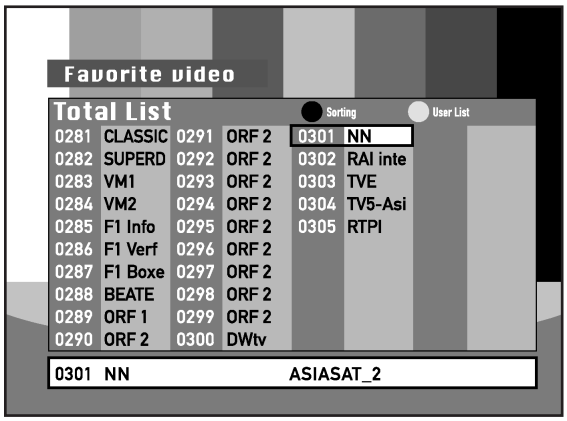
Digital television offers hundreds of channels. Your receiver enables you to select channels using your own personal channel lists so that you do not lose track and above all can quickly change to the channel you want. The manufacturer has already pre-set several hundred broadcasters, which are listed in the “Overall Video List“ and in the “Overall Radio List“. Apart from the overall lists, you can prepare five “personal lists “ and name them as you wish. You can easily program the “Personal Lists“; the instructions are in Chapter 9.2. Proceed as follows to change form one list to another even when a channel is running:

- Press the OK button, while you are watching a channel.
- Press the green button (Timer), if you want to change the user list.

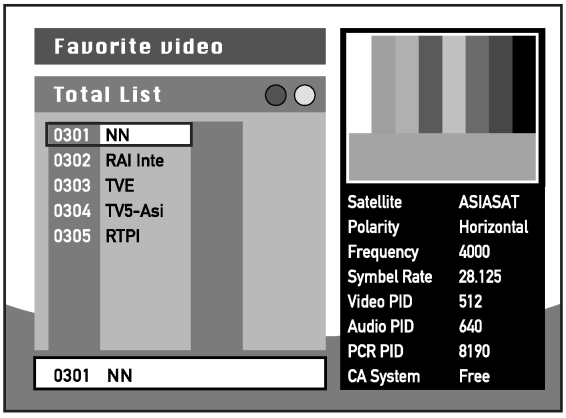
One of the channel lists is overlaid on the screen and the current channel is marked. Use the UP/ DOWN buttons or the < > buttons to select another channel. If you press the OK button, the television switches to the selected channel.

Press the red button (audio) on the remote control, to call up the sorting manager.

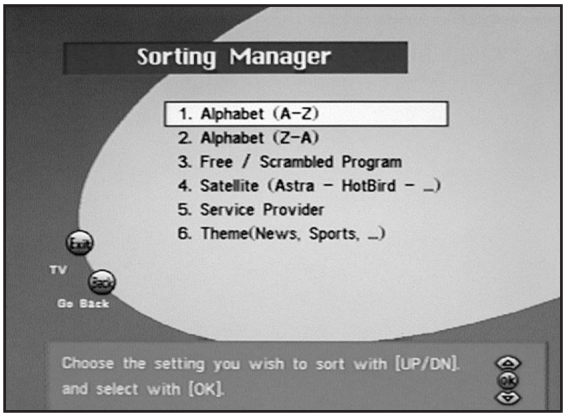
You can now sort the channels in the list using the sorting manager as follows:



- Während Sie die Programmliste sehen, drücken Sie die INFO-Taste (i). Zusätzlich erscheint nun eine technische Information zum eingestellten Sender, das Fernsehbild wechselt in den Kleinbildmodus.
- Drücken Sie die INFO-Taste erneut, um zur Programmliste zurückzukehren.



Press the red button (audio) on the remote control, to call up the **sorting manager.**
You can now sort the channels in the list using the sorting manager as follows:



Sortier-Manager

1. Alphabetically (A – Z)
Sorts the channels in the list alphabetically from A to Z.

2. Alphabetically (Z – A)
Sorts the channels in the list alphabetically from Z to A.

3. FTA / Scrambled Program
Sorts the channels in the list according to free and scramble channels (FTA = Free-to-air).

4. Satellite
Sorts the channels in the list according to satellite. You can select four satellites (e.g. Satellite 1: Astra, Satellite 2: Hotbird ...). After sorting, all the Astra channels are at the beginning of the list, followed by all the Hotbird channels, etc.).

5. Anbieter
Sorts the channels in the list according to service provider. You can select four providers (c.f. “Satellite“).

6. Theme

Sorts the channels in the list according to channel content (topics). You can choose four theme (c.f. “Satellite“), to which you can assign the following topics:

· Movie / Drama
· News / Current affair
· Show / Game Show
· Sports
· Children’s / Youth
· Music / Ballet / Dance
· Arts / Culture
· Soc. / Pol. / Econ.
· Education / S c i e n c e
· Leisure / Hobbies
· Special

ATTENTION:
We suggest, only sort your „Personal Lists“ and not the factory preset list. In order to bring the factory pre sets back to the original order, it is necessary to carry out a Reinstallation (Chapter 9.9). You would then lose your personal lists.

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8.2 Electronic Programme Guide and Programme contents

NOTE:

Information on programme content is not broadcast by all TV broadcasters!

8.2.1 Comprehensive Information on Channel Contents

The Programmführer (EPG) shows the programmes which will be shown within the next 7 days.

- Press the EPG button, while you are watching a chan nel (EPG = Electronic Programme Guide).

The channel guide now shows the channel in mini-image mode on the television.
Next to this you will see a list with all today's programmes just like in a television magazine.

- Use UP / DOWN to select the programme for which you would like to read the detailed programme information.

- Press the INFO button, to display detailed programme channel information.

- Press the > button, if you want to view the list of programmes on the next or following days.

8.2.2 Content Information of Current Channel

- Press the INFO button, while you are watching a programme.

Your screen displays your channel name and number, the time and the current and following programme with the starting time (as shown in the Figure under 7.2).

- Press the INFO button again to display detailed information about the current programme.

Now
[Movie/Drama] 1/2
Malcolm und Eddle strelten seit Wochen daruber, wer von innen das größere Zimmer bewohnt. Die Auseinandorsetzung bringt die beidon sogar bis ins Krankenhaus. Erst Nicolettes Einschreiten verhindert ein
Exit
TV
Info
BBC 1
0008
12:57
12:40 Malcolm & Eddie
13:05 Batman hält die Welt in Atem

- Now press the > button, to receive this information for the programme which follows.

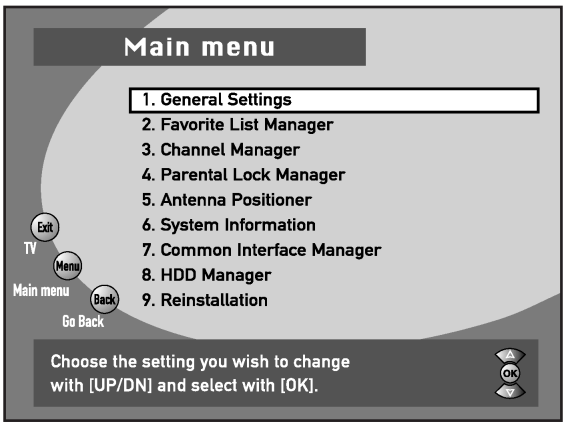
- Press the INFO or EXIT button to quit this menu.

9 Programming your Receiver in the Main Menu

- Press the „Menu“ button to open the **Main Menu**

In order to receive additional or other channels than those of the pre-programmed broadcasters, you can install the broadcasters yourself. In addition, you can also use a large number of service functions, from antenna positioning to programme lists through to access authorisation.

Follow the instructions in the orange coloured dialog box at the bottom of the screen.



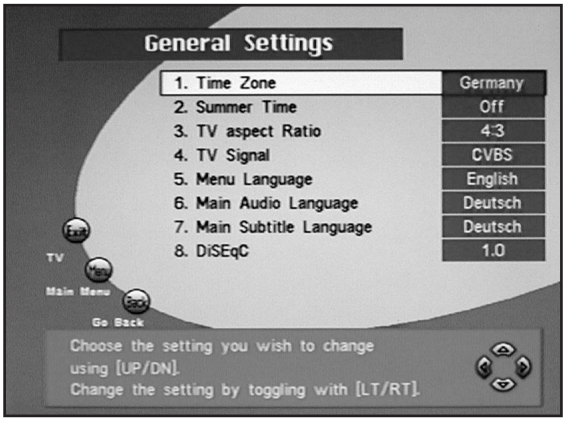
Main Menu

1. General Settings

You already used this menu item when starting up the receiver (Chapter 5). Of course, you can change the settings at any time to e.g. adjust to a new device location.

NOTE:

When changing from summer to winter time and vice versa, you must enter the change under menu item 1.

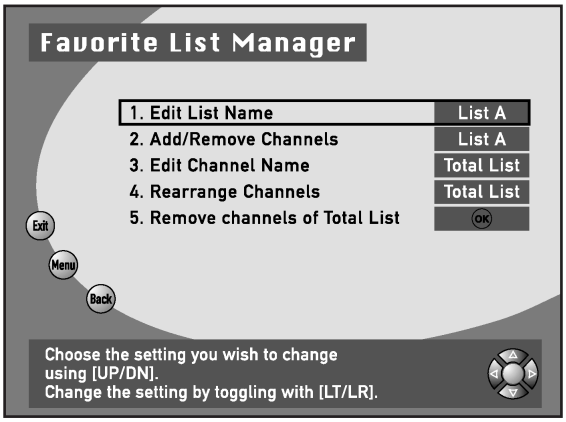


Main Menu

2. Favorite List Manager

It is necessary to programme a “Personal list“, in order to be able to use all receiver’s service functions offered.

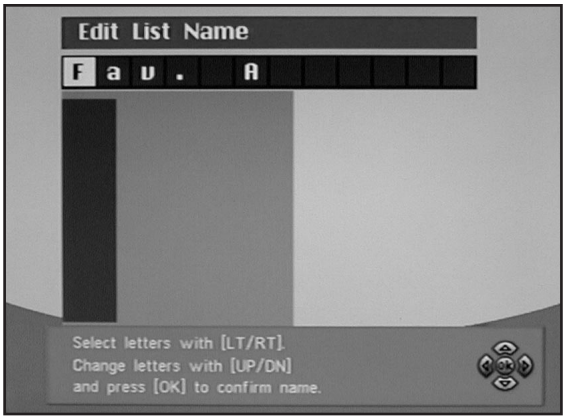
5 lists are already installed under the names List A to List E.



2.1 Edit List Name

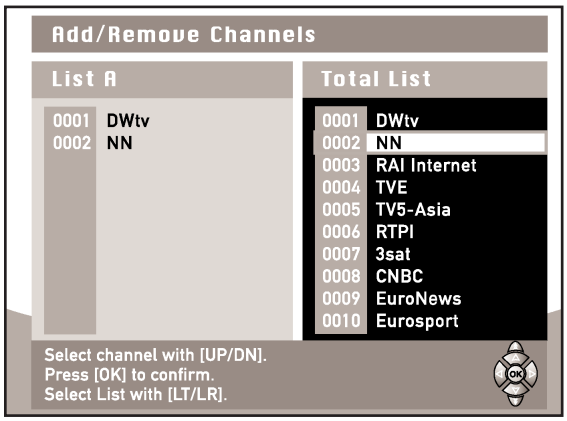
Enter a name under “1. Edit List Name“. Name it according to content, for example “News“ or “Sport“, or according to the user the list – your imagination is set no limits.

Menu item 1 allows you to change the name chosen at any time.



2.2 Add/Remove Channels

Here, you can create your own personal list by adding and removing channels.



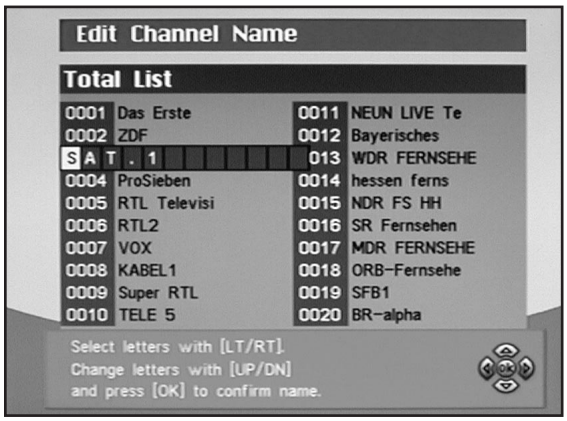
- Use UP/DOWN to move the required channel in the overall video list (right-hand side) and confirm your selection with “OK“.
  The channels have been copied into your personal list. Here it has the current list number (four digits).
  In order to include a radio broadcaster in your personal list you have to first change form the “Overall Video List“ to the “Overall Radio List“ using the Radio button. The rest of the steps are identical to those above.

If you want to delete a channel from your list:

- Use the Timer button to enter the personal list and then use the UP/DOWN buttons to move to the required channel. Confirm the deletion of this channel with “OK“.

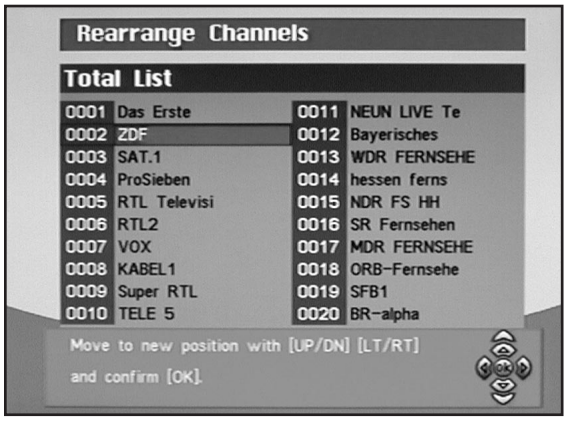
2.3 Edit Channel Name

If you wish to edit the name of your favorite list this function allows you to create and make changes.



2.4 Rearrange Channels

If you want to change broadcaster’s position within the list to that of your television magazine, you can do this using the menu item 4. To do this, mark a broadcaster, shift it to the new position and confirm with “OK“.



2.5 Remove Channels of Total List

In order to create space in the overall list to search for new broadcasters, individual broadcasters which are not needed can be moved from the overall list into the “Recycled“

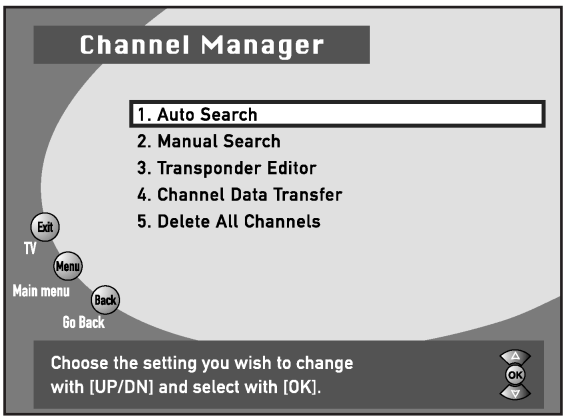
Programming your Receiver

Main Menu

3. Channel Manager

You can use the channel manager to load new broad casters into your receiver's memory.

To make these adjustments you require data which you can obtain from your specialist dealer for example or from trade magazines.

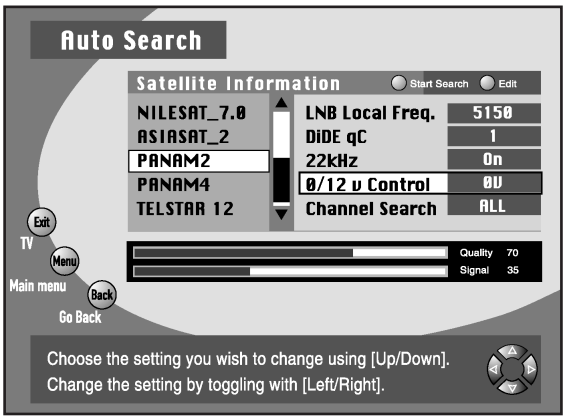


3.1 Automatischer Suchlauf

Quite a lot of data is already pre-programmed for the automatic search. Standard satellite equipment uses so-called universal LNBs with a local oscillator frequency of 9750 MHz for the lower band and 10600 MHz for the upper band. The receiver's basic settings contain this data, as well as the ASTRA and HOTBIRD satellites. You only have to adjust this data in the menu if your satellite equipment devi ates from this or you want to enter other settings.

During the search you will see a bar on which you can follow the search through the frequency.

- With the cursor buttons select a satellite with which you would like to carry out a search. A tick appears next to the chosen satellite.
- Press the green „edit" button to carry out the edit function. With the cursor buttons toggle through the settings.
- Press the „Back" button in order to select another satellite.



Satellite Information:

LNB Lo-Frequency

Here you can set the LO frequency.

DiSEqC

With the help of the follwing DiSEqC table set your specific DiSEqC parameters.

22 kHz

If no DiSEqC controlled sat-system is being used then the „upper/lower Band" parameter must be set to manual. This is done be turning the 22 kHz either on or off.

DiSEqC- Control and 22 kHz- Switch Signal

DiSEqC Settings	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	SAT A				SAT B				SAT C				SAT D			
Polarisation: Vertical/Horizontal	14 V	14 V	18 V	18 V	14 V	14 V	18 V	18 V	14 V	14 V	18 V	18 V	14 V	14 V	18V	18 V
LNB Band: 9,75/10,6 GHz	9,75	10,6	9,75	10,6	9,75	10,6	9,75	10,6	9,75	10,6	9,75	10,6	9,75	10,6	9,75	10,6
DiSEqC Tone	A	A	A	A	B	B	B	B	A	A	A	A	B	B	B	B
OPTION:	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2

0/12 V Output
This model has no option for this function.

Channel Search
Here, you can set which ind of channels should be searched e.g. All, Free-To-Air, Encoded etc.

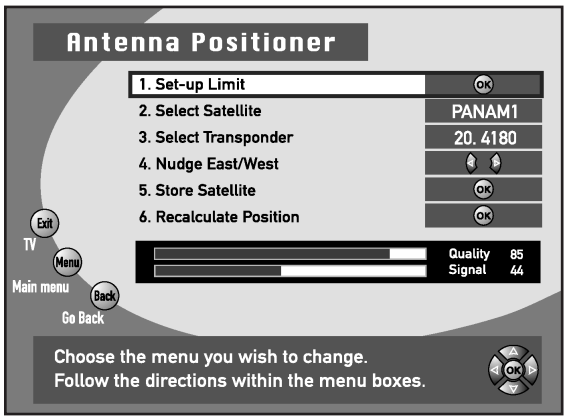
• If you are happy with your selection, press the red button to start the search.

3.2 Manual Search

This menu is divided into two sections on the real screen, move from one part to the other using “BACK“.

1.-8. Punkt

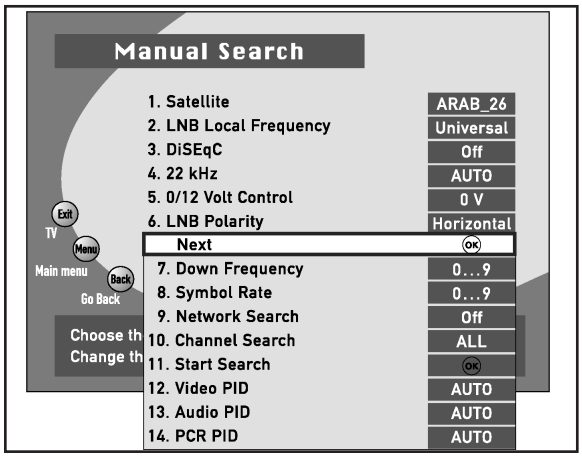
You should leave the settings for this menu to a professional, unless you yourself are almost a professional.



9. Netzwerksuche

Each individual transponder provides the information forthe complete satellite system (Prerequisite: The provider always keeps the list up to date). When entering a transponder and with network search “ON“ it automatically searches for all transponders, which belong to this net-work.

However, the network definition varies among the different satellite operators so that all the channels of a satellite or only selected channel clusters are taken into consideration.



10.-11. Punkt

You should leave the settings for this menu to a professional, unless you yourself are almost a professional.

12.-14. PID (Packed Identifier)

The PID number is the identifier for video and audio signals in the digital data stream of the DVB MPEG-2 signals. Due to poor labelling, some channels cannot be identified, wither during automatic, nor during manual search. In this case, you can enter the PID numbers so that you can receive these channels too.

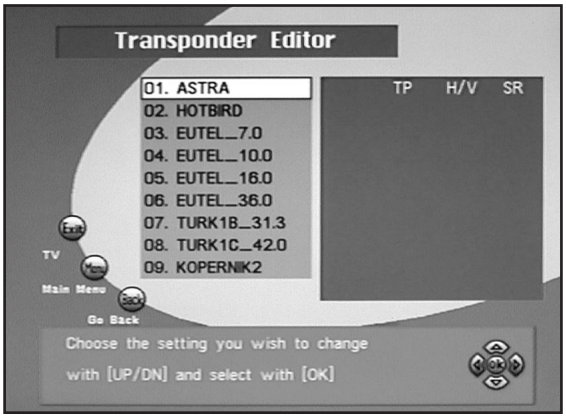
3.3 Transponder Editor

Here satellite data can be changed, added to or deleted. This function is only intended for service purpo ses and absolutely no influence on the operation of your receiver.

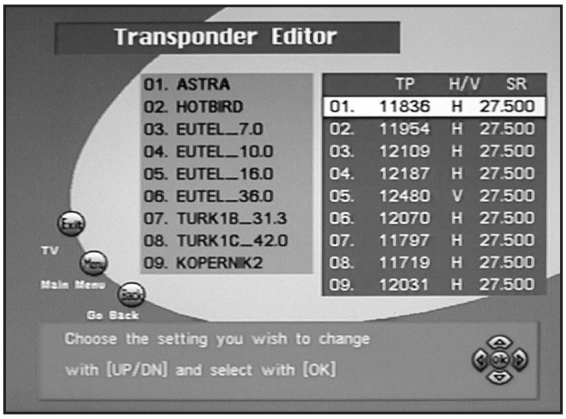
NOTE:

If all the data for a satellite is deleted, the satellite itself is also deleted.

- Press the „OK“ button in the Channel Manager menu in order to get into the „Transponder Editor“ menu.
- Move with the cursor tasten up and down and con firm with „OK“ which satellite you wish to change.



- Press „OK“ once more to change the data. By pressing the „OK“ button, the selected transpon- der (TP) will be marked in yellow. You can now use the numeric buttons to change the frequency.
- Now press the right cursor button (RE) in order to change the Horizontal/Vertical (H/V) frequencies. The area to change is marked in yellow and with the UP/Down buttons you can select between hori- zontal and vertical.
- To change the Symbol Rate, press the RE button again and with the numeric buttons input the new number.

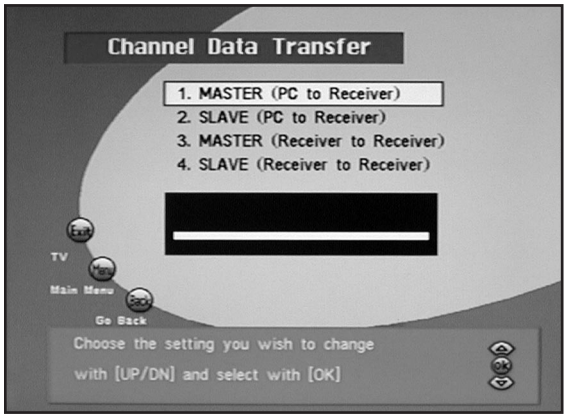


You can change errors at any time by pressing the „Back“ button.

- Press „OK“ to fix the new parameters
- Press the „Back“ button twice to exit the Transponder Editor and get back to the Channel Manager Menu.

3.4 Channel data transfer

This menu item has been included to assist the specialist trade. It is used to transfer self-selected preferential programming from a master device to several slave devices. This preferential programming takes into consideration the uniform interests of a group of customers, e.g. special regional or ethnic characteristics.



Master and slave receivers are linked to each other via RS 232 interfaces for transmission of the program data.

- Connect your receiver with the appropriate set (Receiver or PC) via RS 232 Interface and cable.
- Choose the function you wish to use and press „OK“ in order to start the transfer.

3.5 Reinstallation

ATTENTION:

If you have changed or deleted the pre-programmed data you can reset the device back to the factory settings. To do this, you will need the password (9 8 1 5).

Main Menu

4. Parental Lock

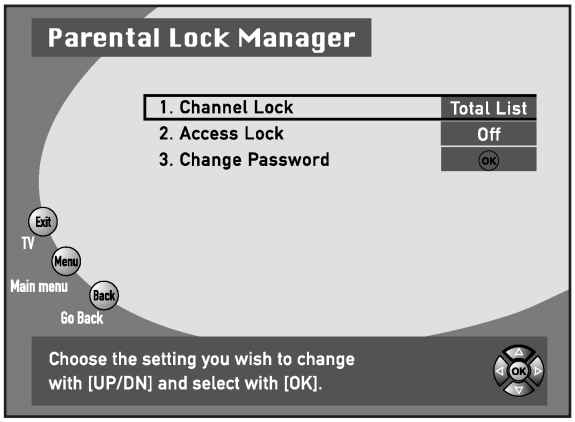
Various functions of the receiver require a password to be entered, this was set to 0 0 0 0 in the factory. You can protect the device with an access block to prevent unauthorised use of your receiver.

4.1 Channel Lock

To stop uncontrolled viewing of certain channels, first choose the list by toggling with the LE/RI buttons and confirm with „OK“. The chosen list appears and using the cursor buttons select the channels you wish to „lock“. A padlock symbol appears next to the channel name when the „OK“ button is pressed. Confirm your new settings by pressing the „Exit“ button.

4.2 Access Lock

You can protect the device with an access block to prevent unauthorised use of your receiver. Toggle with the LE/RI buttons. Each time your receiver is turned on you will be asked to input your password.



4.3 Change Password

If you have forgotten your number it is possible to use the factory preset number: **9 8 1 5 .**

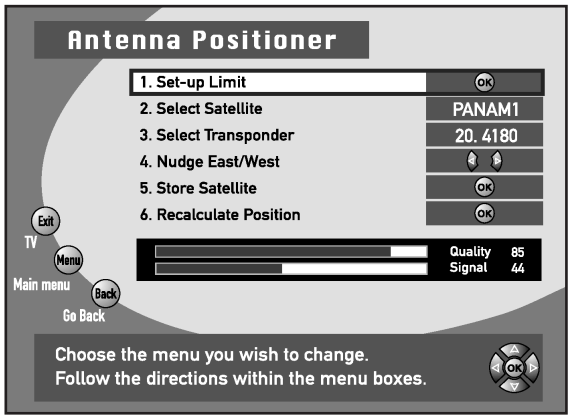
ATTENTION: Keep this number secure from prying eyes!

Programming your Receiver

Main Menu

5. Antennensteuerung

The settings described in the following require very specialist knowledge and skills. Therefore, please con tact an experienced professional.



Prerequisites:

Parabolic antennae have a control motor, which can receive and implement the receiver's control signals. The antenna is correctly adjusted mechanically so that it can precisely follow the satellites' orbits. This is necessary to receive the strongest possible signal.

HINWEIS:

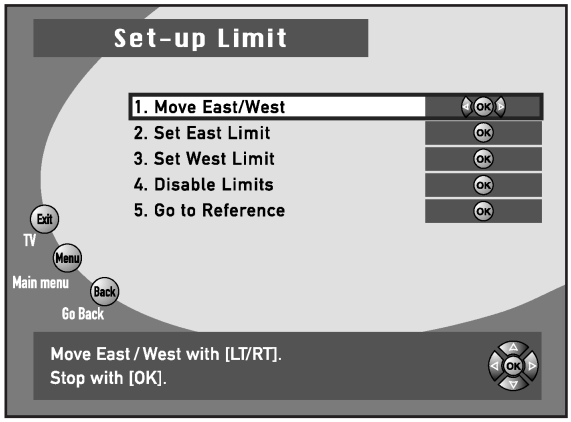
In the „General Settings" menu, the DiSEqC option should be set to „1.2" when you have an antenna with motor positioner. If you do not have a motorized antenna then it is possible to test the signal strength whilst installing your receiver using the „Antenna Positioner" option.

5.1 Set-up Limit

Hier werden die räumlichen Grenzen festgelegt, die sich innerhalb der Parabolantenne bewegen können, ohne ein Hindernis zu berühren.

5.1.1- 5.1.4

The spatial limits within which the parabolic antenna can move without touching a hindrance are specified in the "1. Set-Up Limits " sub-menu.
To do this, the antenna is first moved as far as possible in the eastern direction and this position then fixed with "Set East Limit ". Then, again using menu item 1, it is moved and the western direction and fixed with "Set West Limit". If the structural circumstances change the set positions can be deleted using "Disable Limits" and then reset later.



5.1.5 Go to Reference

This function resets the antenna's control motor to the delivered condition (zero position – middle).

5.2 Select Satellite

Toggle with the L/R buttons to choose a satellite. The satellite number changes automatically as you toggle. The satellite receiver 'knows' where the different satellites are in relation to each other. Therefore it is enough when one specific satelite is chosen, the strongest signal acheived and saved. With the calculate command all other satellite positions will be configured.

5.3 Satellite number

To change satellite, toggle with L/R buttons and confirm with „OK" or press „Back" to return to the original number.

5.4 Select Transponder

Select with the L/R buttons which transponder you wish.

5.5 Move East/West

Here you can set the spacial limits of the antenna with the L/R buttons which in turn moves the antenna left and right. Press „OK" to confirm the position.

5.6 Search East/West

The antenna finds it´s own position in East/West

5.7 Save Satellite

All paramters are saved when „OK“ is pressed in this function

5.8 Calculate new Position

The position of a satellite can be worked out here. Confirm with „OK“ or retain the position by pressing the „Back“ button.

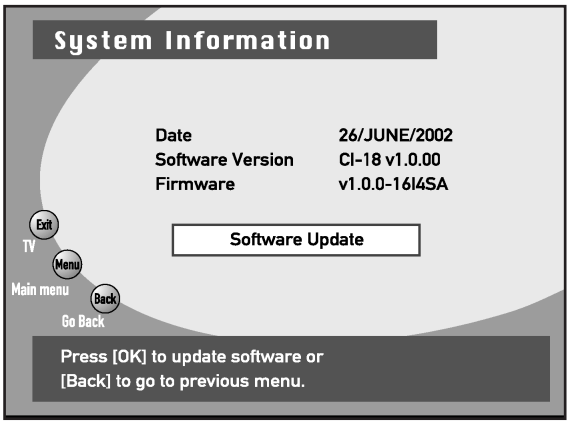
Main Menu

6. System Information and Software Update

Under this menu item you will find information about the software version of your receiver and can update the software version.

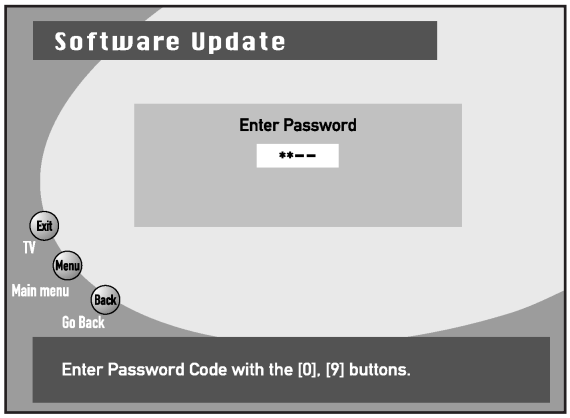
The software version is updated by downloading the new software via satellite. Prerequisite for this is that a more up to date version is available.

Please note that the software download can only take place at a certain time of the week. For more information regarding his please refer to the website: www.radix-sat.de.



- Confirm the „Air Download Start“ with „OK“.

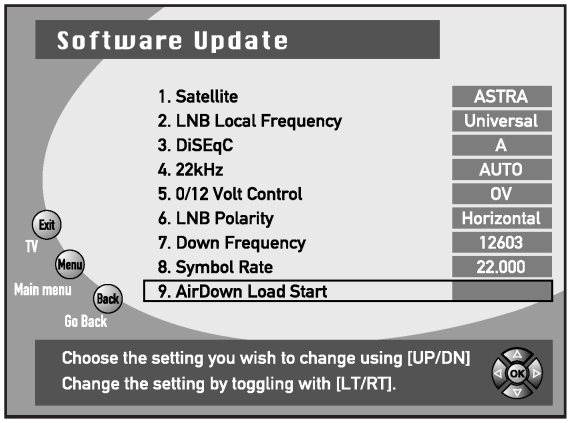
- With the numeric buttons type your password in order to authorize the software download.



Im folgenden Menü sehen Sie die Einstellungen des Receivers für das Herunterladen der neuen Softwareversion und können bei Bedarf noch Änderungen vornehmen.

The following menu will appear. Here you have the opportunity to change parameters as in the previous chapters.

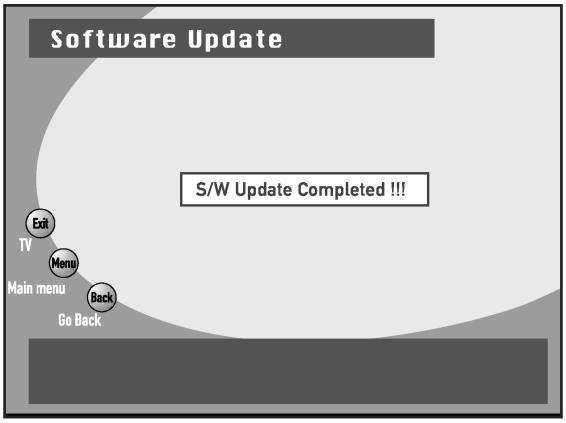
- Press „OK“ to initiate the software download.



The receiver first checks whether a more up-to-date software version is available.

If this is not the case, “No available software found! Please try again later on“ is displayed.

After successfully downloading a new software version “Software update completed!!!“ is displayed and the receiver automatically restarts.



Main Menu

7. Common Interface

Your receiver is fitted with two PCMCIA slots, which enable the use of two CI-CA modules. You can use these modules to view the pay by view, not free encoded channels, which are transmitted by satellite in the same way as the uncoded channels.

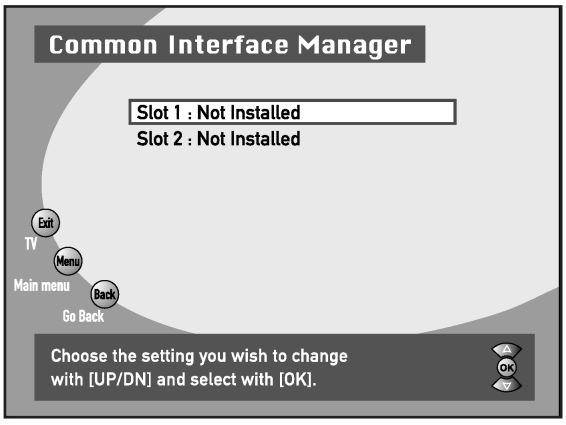
In addition to the CI-CA module, in order to be able to view an encoded channel you also require a multi access module with a CI slot and the channel provider’s relevant smart card.
When you have then paid the subscription or a one-off charge for the channel provider’s smart card, the CI-CA module in your receiver can compare the transmitted code with the smart card in the multi access module. If they match the channel is deciphered and you can view the channel.

Please ask your specialist dealer about multi-access modules and smart cards on offer and the charges.

- If you want to see which CI-CA modules are installed in your receiver, or if you want to make adjustments to the CI_CA modules, press “Menu“ and then select Item 7 “Common Interface Manager“. You will then see the following display:

If a CI_CA module has been installed, the receiver automatically determines the type of module and dis plays it in this menu.

When selecting a module you have access to the various options available to this type of module. These include permits, advance booking, details of channel packages, etc.

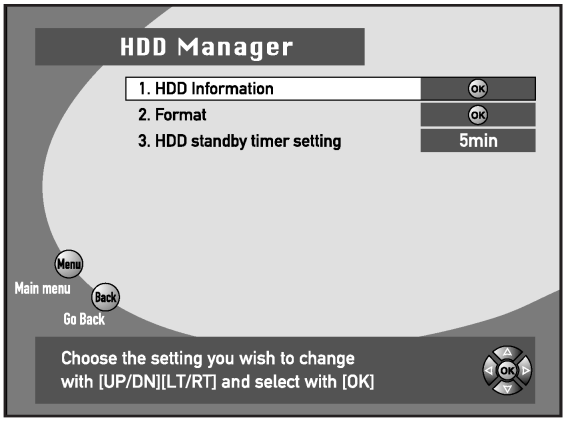


Main Menu

8. HDD Manager

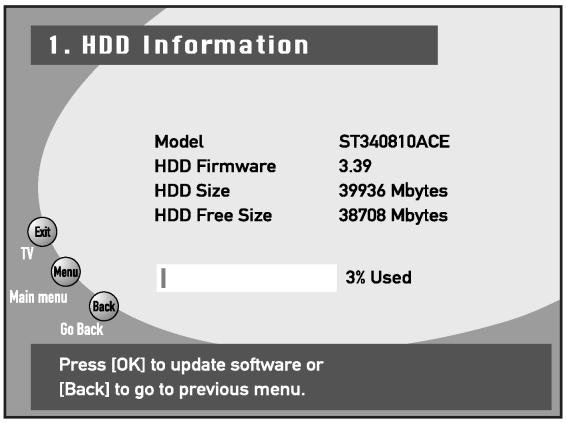
This menu shows he information of the HDD and how to manage it

- Press „OK“ to call up HDD information in manu item no. 1.



8.1 HDD Information

In HDD Information you can call up information such as HDD Firmware, HDD-size and the amount of free space on the harddisk.

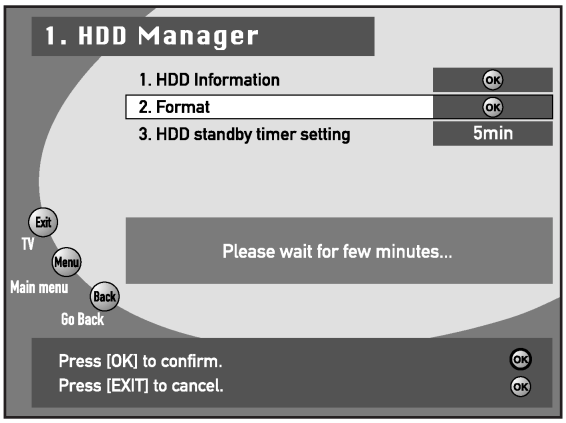


8.2 Format

- To format the disk, press „OK“ in this menu item.
- Enter your personal password or the factory pre set password (9 8 1 5)

All saved material on the disk will be deleted.

Newly installed harddisks should be formatted by this method. The file structure of this STB receiver/recorder is different from that of a PC.



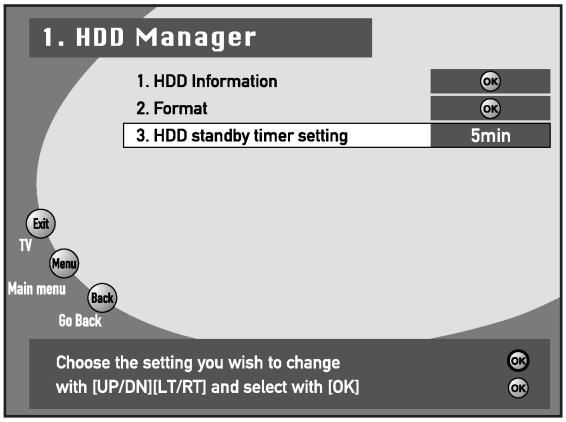
NOTE:

Do not turn off the recevier during formatting.

8.3 HDD Standby Timer Setting

This menu is used to save power consumed by the HDD. If this is set to 10 minutes, the HDD goes into Standby mode after 10 minutes of non-use.

• Toggle with L/R buttons to adjust this parameter.



Main Menu

9. Reinstallation

If you have changed or deleted preset data and wish to reset the receiver to the factory presets:

• Choose this option with „OK“ and enter the password: **9 8 1 5** .

NOTE:

By performing a Reinstallation you will loose all favorite list settings and all other setting performed since the first start-up.

10 Recording and Playback

This receiver can record programmes digitally and play them back

10.1 Recording

10.1.1 Instant Recording

- To make an instant recording, press „Rec“ and recording will begin.

A recording icon will appear in the top right hand corner of the screen when a recording is in progress.

- To stop recording, press „OK“. When the information menu is displayed in the lower half of the screen press „OK“ to stop recording or „Exit“ to continue recording.

10.1.2 Recording with Timer (Timer Funktion)

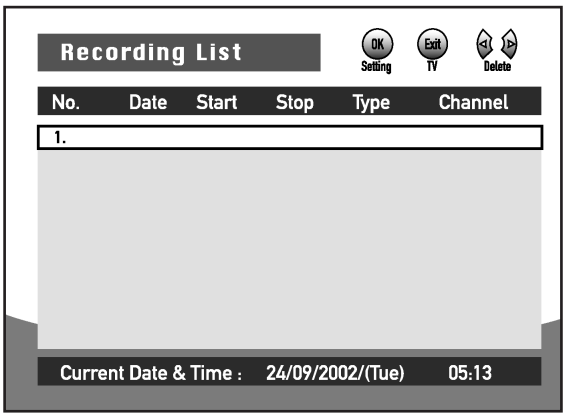
You can use the timer function so that your receiver automatically switches on or off or changes the channel at a preset time so that you can record a progrtamme using a connected video recorder. You can also use this function to automatically change channels if you don´t want to miss the start of a programme but want to watch another channel until then.

The timer function allows you to set a list with all the required timer settings in which you can set the date and time for the receiver to be switched on and off, the channel and if necessary the daily or weekly repeat of each switching operation.

If you are currently watching a channel and timer switching operation is pending, the receiver reminds you byo-verlaying a massage that the timer switching operation will take place in one minute. When this time is reached, the receiver switches over to the required channel and „Rec“ is displayed on the front display. After the preset time has expired, the receiver switches back to the original channel.

How to programme the timer:

- Press the „Timer“ button.



If you have not yet specified the actual date or time you will now be asked to. Use the numeric keys. As soon as you have done this the following screen will be displayed:

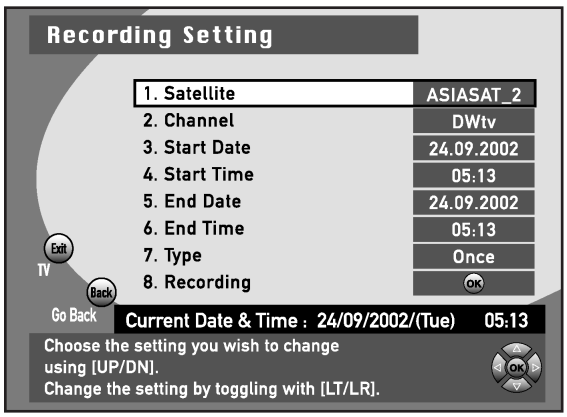
This list shows all of the programmed recordings. All settings can be changed or deleted. In the column „Modus“ you can see if the timer function is set for once only, daily or weekly.

- With „OK“ you can enter a new timer setting. You will then see the following display:

In this menu you can enter all the settings for the timed switching operation. Then, select menu item 8 and confirm with „OK“ to return to the list

- To delete an entry from the list, select it using the UP/DN buttons and then press L/R. Confirm your selection with „OK“

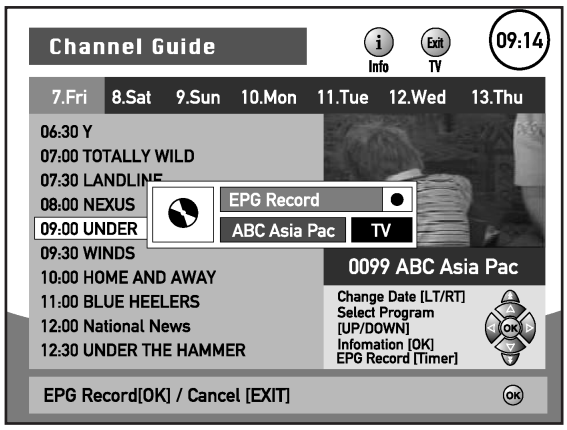
- Press „Exit“ to return to TV mode.



10.1.3 EPG Recording

Press „EPG“ to display the Electroic Programme Guide.

Select a programme you would like to record by using UP/DN buttons and press the „Timer“ button. When EPG record information is displayed, press „OK“ to reserve the recording. The selected programme will now appear in the Recording list.

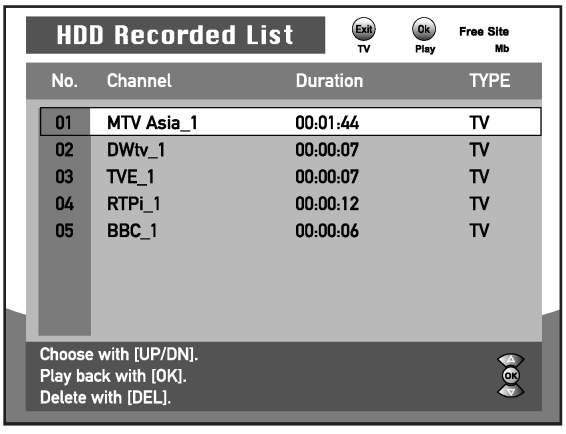


10.2 HDD Recorded List

Press the „list“ button to display the recorded list.

10.2.1 Playback the recorded file

- Move to a recorded file in the list that you would lik eto playback using the cursor keys.
- Press „OK“ to begin playback



- Press „Info“ to either show or hide the progress bar

10.2.2 Slow motion

To playback in slow motion (without sound), press the „DN“ key.

10.2.3 Fast forward and Rewind

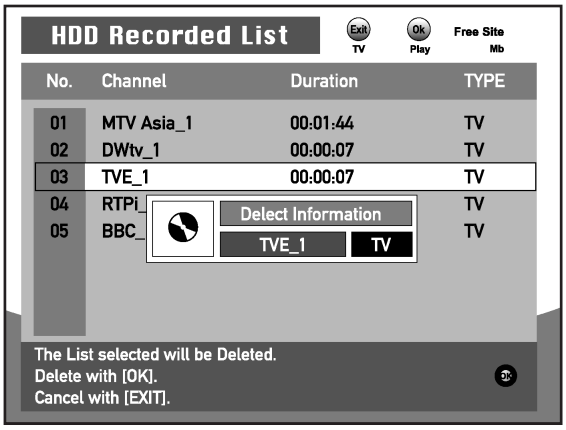
Der Faktor wird auf dem Front-Display angezeigt.With the L/R buttons you can operate fast forward or rewind. By pressing several times it is possible to change the speed (2x, 4x, 8x, 16x). The speed factor is displayed on the front panel display.

10.2.4 Stop und Pause

Mit „OK“ halten Sie die Wiedergabe an. Drücken sie „AUF“ Taste zur Unterbrechung / Fortsetzung der Wiedergabe.

10.2.5 Delete a Recorded file

- Press the „List“ button. Choose the programme which should be deleted.
- Press „DEL“.
- If the delete information is shown, confirm with „OK“ or abort the function by pressing „Exit“



10.3 Time Shifting

Tme shift gives the opportunity to follow a running programm with a delay of up to 120 minutes.

- If, for example, your telephone rings ad you do not wish to miss the programme, press the „Time-Sift“ button and the picture freezes.

- To resume to watching the programme after the call, press the RE button and the programme will be played back.

- During the delayed play-back you can also pause the programme with the UP button. The Picture freezes. By pressing the UP button again, the programme is played back

- In order to stop Time-Shifting, press the „OK“ button. The choice menu appears.
  By pressing the „OK“ button again, the Time Shifting function is stopped and the programme saved in the temporary memory will be deleted. Alternatively, press the „Exit“ button to carry on with the Time-shifting play back.

10 Troubleshooting

NOTE:

Large quantities of data are transmitted and processed simultaneously in digital receiver technology. Switching from one channel to another therefore takes a bit longer than you are used to with an analogue device.

A sand timer or the message “please wait” appears during the waiting time.

Malfunction	Possible cause	Corrective measures
Noise, but screen menu visible	Satellite equipment defective or incorrectly set, LNB defective	Check the cable and the connector, Reorientate the antenna, check the LNB
	High signal losses at the cable	Replace the satellite cable or use a signal amplifier
	Defective LNB	Replace LNB
	Plug-in connector faulty (water, corrosion)	Repair link
No stereo sound	Wrong cable between the TV and the receiver	Check the scart cable
Remote control doesn’t react	Batteries empty	Replace the batteries
	Remote control not pointed in the direction of the device when used	Correct the position of the remote control

11 Recycling and Disposal

The device, the packaging (e.g. polystyrene) and the batteries must not be disposed on in the normal domestic waste. Dispose of all the materials separately according to your local regulations at allocated locations. Please find out about the applicable regulations (environmental agency, etc.).

Tuner

IF Input Frequency	950 ~ 2150MHz
IF Loop through output	950 ~ 2150MHz
IF Bandwidth	8/55MHz, automatical switching according to symbol rate
Input Impedance	75ohms
Input Signal level	-65dbm ~ -25dbm
LNB Polarization	
Switching Voltage	13/18VDC@max400mA, Short Circuit Protection
Band Switching	22KHz Tone Diseqc 1.2
I/Q Output	Unbalanced Output, Controlled by AGC Input

Front-End Demodulator

Demodulation Capacity	QPSK Demodulation
Symbol Rate	1 ~ 45Msps
Viterbi Decoding Rate	1/2, 2/3, 3/4, 5/6, 7/8, 8/9
Reed Solomon Decoding	FEC : 204, 188, t=8

Transport Demultiplexer

Demultiplex	According to ISO/IEC 13818-1
Max. Input Stream	60MHz(Serial)/7.5MHz(Parallel)
PID Handling Capability	32 PID
SI Filtering	According to DVB-SI spec (ETS 300 468)

Video Decoding Parameters

Video Decoding	ISO/IEC 13818-2 MP@ML
Aspect Ratio	4:3, 16:9
Resolution	Max.720 x576

Audio Decoding Parameters

Audio Decoding	ISO/IEC 13818-3 Layer I & II
Operating Mode	Mono, Stereo
Sampling Frequency	32, 44.1, 48KHz

Baseband Video/Audio Output

Video Output Impedance	75ohms
Video Output Level	1Vp_p
Audio Output Impedance	600ohms Unbalanced
Audio Output Level	3.0Vp_p With Volume Control
Digital Audio Output Level	0.5Vp_p with 75 ohm Terms

Microprocessor and Main Memories

Microprocessor Type	ST20-C2(STI5518)
Flash ROM (for program memory)	1M x 16 bit
SDRAM (for decoding)	4M x 16 bit
SDRAM (for HDD)	4M x 16 bit

Data Service Port

Connector	9 Pin D-Female Type
Protocol	RS-232 Asynch
Data Rate	Max 115200 bps

Front Panel

4 Digits LED Display	Channel Numbers Display
3 Buttons	Power, Down, Up
IR Sensor	38KHz
PCMCI Slots	2

Rear Panel

IF Input	F-Female Type
IF Loop through output	F-Female Type
Cinch Output	AUDIO(Left, Right), Digital Audio
2SCART Output	1TV, 1VCR
RS232 Serial Port	9 Pin D-Female Type
Power Cord	Europe Flexible Cord

Remote Control Unit

Type	IR (Carrier Freq. 38KHz)
Battery	2 x 1.5V AAA

General Data

HDD Size	40GB(20160180 GB Option)
Input Power Voltage	AC 95~250V, 50/60Hz
Power Consumption	Max 50Watts
Dimension(W x D x H)	377 x 240 x 69mm
Weight	2.5Kg
Operation Temperature	0 ~ 40 Deg.

Imprint:

User Manual for PVR (Personal Video recorder)
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